

Attorney's Docket No.: 14759-003001

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently Amended) A used-can processing system comprising a shredder for cutting a used can, and a pelletizer for pelletizing cut pieces of the used can produced by a shredder, wherein the shredder comprises:

a pair of main rotary blade units disposed such that their circumferential surfaces having blades formed thereon face each other, the main rotary blade units rotating in opposite directions, whereby the circumferential surfaces of the main rotary blade units move downward in a facing region where the circumferential surfaces face each other, to thereby cut a used can ~~thrown~~ fed from above the facing region and feed the cut can downward; and

a pair of auxiliary rotary blade units disposed on the upper side of the respective main rotary blade units such that ~~their circumferential surfaces of the pair of auxiliary rotary blade units~~ having blades formed thereon face the circumferential surfaces of the respective main rotary blade units in regions outside the facing region, each of the auxiliary rotary blade units rotating in the same direction as does the corresponding main rotary blade unit, to thereby urge,

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toward the pair of main rotary blade units, the used can thrown from above the pair of main rotary blade units, and

wherein the pelletizer includes:

a chamber provided with a receiving opening for receiving cut pieces and a screen having a pellet removal hole through which pellets having a predetermined size or less pass;

a rotary body disposed within the chamber and having a hammer formed on a circumferential surface of the rotary body, the rotary body deforming cut pieces fed into the chamber to pellets by applying impact to the cut pieces by means of the hammer;

a cutting line formed of a projection that is provided on a circumferential wall portion of the chamber to be located below the receiving opening; and

a vertically-extending corrugated surface that is formed on the circumferential wall portion to be located below the cutting line.

2. (Currently Amended) A used-can processing system according to claim 1, wherein each of the blades of the main rotary blade units and the auxiliary rotary blade units has projecting portions and depressed portions formed alternately along the circumferential direction on the circumferential surface of the corresponding blade.

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3. (Currently Amended) A used-can processing system according to claim 1, wherein a screen having cut-pieces removal holes is disposed below and along the pair of main rotary blade units and the pair of auxiliary rotary blade units, whereby cut pieces of the used can that have been cut by means of the pair of main rotary blade units and the pair of auxiliary rotary blade units and having sizes less than a predetermined size are fed downward through the cut-pieces removal holes, and cut pieces having sizes not less than the predetermined size are guided and fed to regions above the pair of main rotary blade units by means of rotation of the pair of main rotary blade units and the pair of auxiliary rotary blade units.

4. (Canceled)

5. (Currently Amended) A used-can processing system according to claim 1, further comprising a heating apparatus for heating cut pieces which are produced as a result of cutting of the used can by means of the main rotary blade units and the auxiliary rotary blade units and which have a predetermined size.

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6. (Currently Amended) A used-can processing system according to claim 2, wherein a screen having cut-pieces removal holes is disposed below and along the pair of main rotary blade units and the pair of auxiliary rotary blade units, whereby cut pieces of the used can that have been cut by means of the pair of main rotary blade units and the pair of auxiliary rotary blade units and having sizes less than a predetermined size are fed downward through the cut-pieces removal holes, and cut pieces having sizes not less than the predetermined size are guided and fed to regions above the pair of main rotary blade units by means of rotation of the pair of main rotary blade units and the pair of auxiliary rotary blade units.

7. (Canceled)

8. (Currently Amended) A used-can processing system according to claim 2, further comprising a heating apparatus for heating cut pieces which are produced as a result of cutting of the used can by means of the main rotary blade units and the auxiliary rotary blade units and which have a predetermined size.

9. (Canceled)

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10. (Currently Amended) A used-can processing system according to claim 3, further comprising a heating apparatus for heating cut pieces which are produced as a result of cutting of the used can by means of the main rotary blade units and the auxiliary rotary blade units and which have a predetermined size.

11. (Canceled)

12. (Canceled)

13. (Currently Amended) A used-can processing system according to claim 6, further comprising a heating apparatus for heating cut pieces which are produced as a result of cutting of the used can by means of the main rotary blade units and the auxiliary rotary blade units and which have a predetermined size.

14. (Canceled)

15. (Canceled)

16. (Canceled)

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17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (New) A used-can processing system according to claim 5, wherein the heating apparatus is constructed of a rotary kiln that includes a rotary, tubular member; a pair of guides which support the rotary, tubular member such that the rotary, tubular member can rotate about its axis; a drive unit for rotating the rotary, tubular member; a fore kiln; and an aft kiln.

21. (New) A used-can processing system according to claim 8, wherein the heating apparatus is constructed of a rotary kiln that includes a rotary, tubular member; a pair of guides which support the rotary, tubular member such that the rotary, tubular member can rotate about its axis; a drive unit for rotating the rotary, tubular member; a fore kiln; and an aft kiln.

22. (New) A used-can processing system according to claim 10, wherein the heating apparatus is constructed of a

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rotary kiln that includes a rotary, tubular member; a pair of guides which support the rotary, tubular member such that the rotary, tubular member can rotate about its axis; a drive unit for rotating the rotary, tubular member; a fore kiln; and an aft kiln.

23. (New) A used-can processing system according to claim 13, wherein the heating apparatus is constructed of a rotary kiln that includes a rotary, tubular member; a pair of guides which support the rotary, tubular member such that the rotary, tubular member can rotate about its axis; a drive unit for rotating the rotary, tubular member; a fore kiln; and an aft kiln.